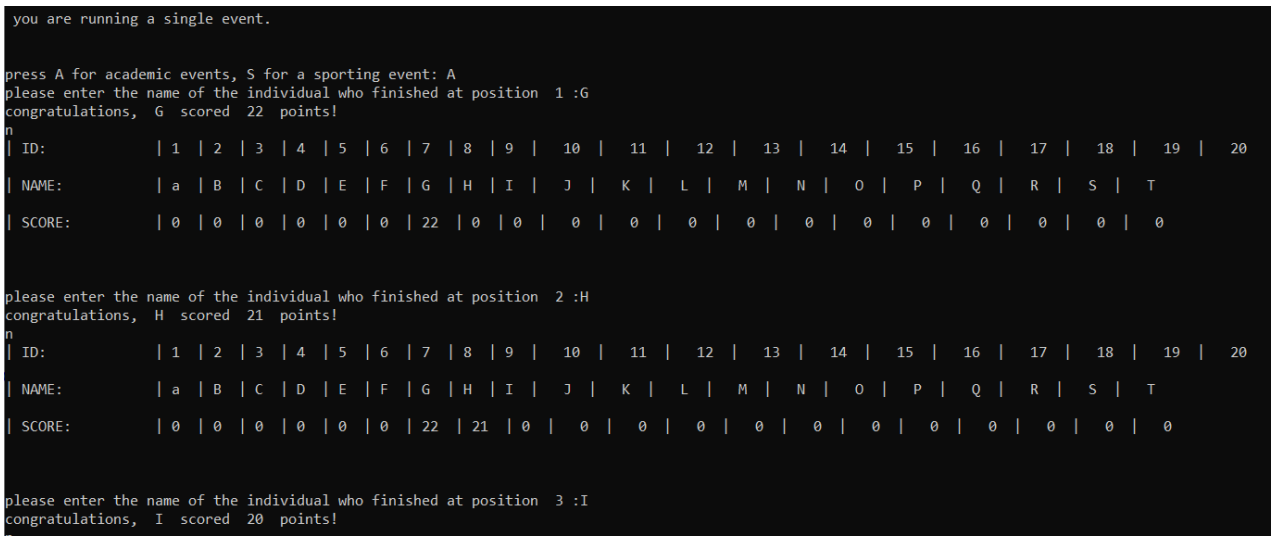
Sample Program Code and Screenshot – PYTHON Solution

Included are a screenshot and function example of the running program. You will have full access to the entire codebase and technical documentation after purchase.

Sample Screenshot

Here is a screenshot of the input for the events. All 20 individual have been pre-registered and the code is now putting different scores in the correct location according to where an individual finishes.


you are running a single event.
press A for academic events, S for a sporting event: A
please enter the name of the individual who finished at position 1 :G
congratulations, G scored 22 points!
n
| ID: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20
| NAME: | a | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T
| SCORE: | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
please enter the name of the individual who finished at position 2 :H
congratulations, H scored 21 points!
n
| ID: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20
| NAME: | a | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T
| SCORE: | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
please enter the name of the individual who finished at position 3 :I
congratulations, I scored 20 points!

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Sample Code – Python Solution

The following code is a fragment of the entire available code for the solution, all fully commented to aid understanding. This function is the code for running a single event for an individual.

```
# function for running a single event for an individual.
# the function works out if the event to be scored Is either academic Or
sporting
# the function will simply loop through the individual score array adding
the scores as necessary
# a simple lookup function could have been added to add the score for a
specific individual, but this
# would form part of the interview process with stakeholders.
def RunSingleIndividualEvent(eventType):

    individualName = ""
    inputChoice = ""
    validInput = False
    counter = 0

    #loop through the array starting at column index 0
    for i in range(0, 20):

        #as we are looping multiple times, we must reset this validation
flag to false
        #otherwise the first time it Is set to TRUE it'll never reset.
        validInput = False

        #get the indivuduals name from row 1
        #individualName = individualScores[1][i]

        print("please enter the name of the individual who finished at
position ", i+1, ":", end="")
        individualName = str(input())

        #begin the loop through the scores array
        for j in range(1, 21):

            temp = individualScores[1][j]

            if temp == individualName:

                if(eventType == "a"):

                    #get the current score out of the array
                    #convert it from an string to an integer
                    currentScore = int(individualScores[2][j])

                    #add the academic score
                    newScore = currentScore + (individualAcademicEventScore
- counter)

                    print("congratulations, ",individualName," scored
",individualAcademicEventScore - counter," points!")

                    #convert the number back to a string, And add it into
row 3 of the 2D array where the scores are to be stored
```

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```
                    individualScores[2][j] = str(newScore)

                else:
                    #repeat for sporting event scores
                    currentScore = int(individualScores[2][j])

                    newScore = currentScore + (individualSportingEventScore
- counter)
                    print("congratulations, ",individualName," scored
",individualSportingEventScore - counter," points!")

                    individualScores[2][j] = str(newScore)
                counter = counter + 1
                break

        print("n")
        #show the scores table after each score has been added.
        displayIndividualScoresTable()
        print("\n")
```

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